

This listing of claims will replace all prior versions, and listings, of claims in the application:

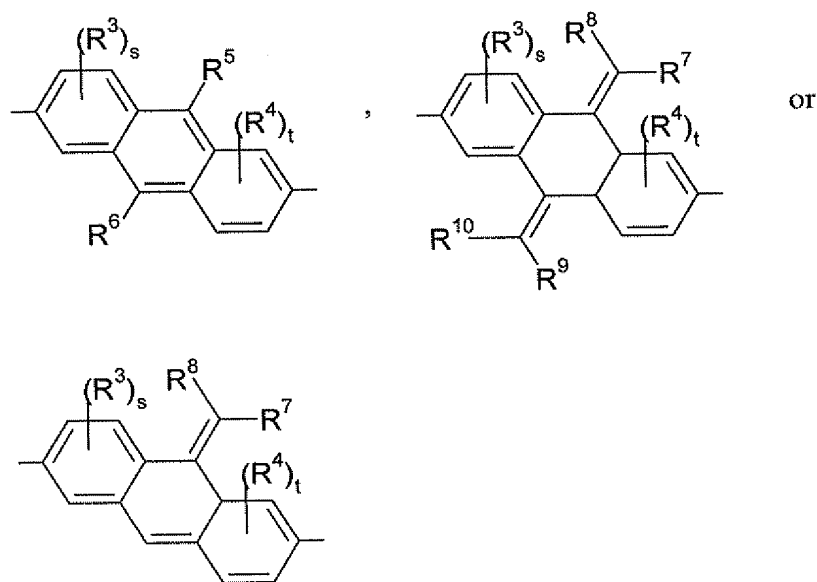
Listing of Claims:

1. (Cancelled)
2. (Currently Amended) A compound comprising ~~one or more~~ identical or different groups of formula II



wherein

G is, in case of multiple occurrence independently of one another,



R^3 to R^6 are, independently of each other, F, Cl, Br, I, CN, NO_2 , NCS, SF_5 or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one

another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R⁷ to R¹⁰ are, independently of each other, F, Cl, Br, I, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R⁰ and R⁰⁰ are independently of each other H or alkyl with 1 to 12 C-atoms,

P is a polymerizable or reactive group,

Sp is a spacer group or a single bond,

s and t are independently of each other 0, 1, 2 or 3,

g is, in case of multiple occurrence independently of one another, 1, 2 or 3,

A is, in case of multiple occurrence independently of one another, -CX¹=CX²-, -C≡C-, an aromatic or alicyclic ring or a group comprising two or more fused aromatic or alicyclic rings, wherein these rings optionally contain one or more hetero atoms selected from the group consisting of N, O and S, and are optionally mono- or polysubstituted by R³,

X¹ and X² are independently of each other H, F, Cl or CN,

Y¹ and Y² are independently of each other H, F, Cl or CN,

a is, in case of multiple occurrence independently of one another, 0 or 1, and

z is an integer of 2 to 5000,

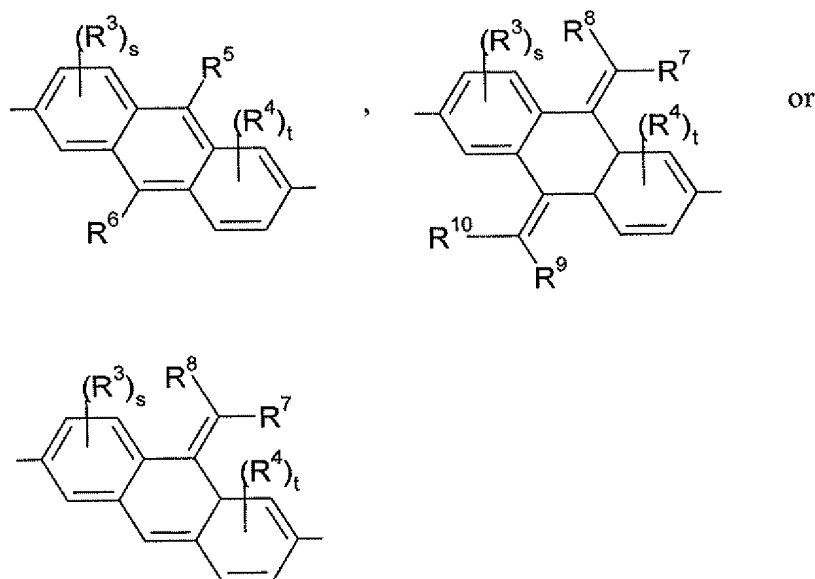
wherein ~~in case of multiple occurrence~~ the groups $[(G)_g-(A)_a]$ can be identical or different.

3. (Previously Presented) A compound of formula I1A



wherein

G is, in case of multiple occurrence independently of one another,



R^3 to R^4 are, independently of each other, F, Cl, Br, I, CN, NO_2 , NCS, SF_5 or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, $-\text{NR}^0$ -, $-\text{SiR}^0\text{R}^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, $-\text{CY}^1=\text{CY}^2$ - or $-\text{C}\equiv\text{C}-$ in such a manner that O and/or S atoms

are not linked directly to one another, or are P-Sp,

R^5 to R^6 are, independently of each other, F, I, NO_2 , NCS, SF_5 or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, $-NR^0$ -, $-SiR^0R^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, $-CY^1=CY^2$ - or $-C\equiv C$ - in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R^7 to R^{10} are, independently of each other, F, Cl, Br, I, NO_2 , NCS, SF_5 or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, $-NR^0$ -, $-SiR^0R^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, $-CY^1=CY^2$ - or $-C\equiv C$ - in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R^0 and R^{00} are independently of each other H or alkyl with 1 to 12 C-atoms,

P is a polymerizable or reactive group,

Sp is a spacer group or a single bond,

s and t are independently of each other 0, 1, 2 or 3,

g is, in case of multiple occurrence independently of one another, 1, 2 or 3,

A is, in case of multiple occurrence independently of one another, $-CX^1=CX^2$ -, $-C\equiv C$ -, an aromatic or alicyclic ring or a group comprising two or more fused aromatic or alicyclic rings, wherein these rings optionally contain one or more hetero atoms selected from the group consisting of N, O and S, and are optionally mono- or polysubstituted by R^3 ,

X¹ and X² are independently of each other H, F, Cl or CN,

Y¹ and Y² are independently of each other H, F, Cl or CN,

a is, in case of multiple occurrence independently of one another, 0 or 1,

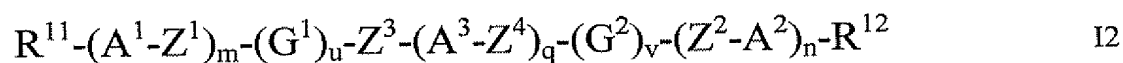
z is an integer ≥ 1 ,

R¹ and R² are, independently of each other, F, Br, I, CN, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, P-Sp, have, independently of each other, one of the meanings of R³, or denote B(OR^{x'})(OR^{x''}), SnR^xR^{xx}R^{xxx} or SiR^xR^{xx}R^{xxx}, and if alkoxy, then ethoxy, propoxy, butoxy, pentoxy, hexoxy, heptoxy, octoxy, nonoxy, decoxy, undecoxy, dodecoxy, tridecoxy or tetradecoxy.

R^x, R^{xx} and R^{xxx} are, independently of each other, H, aryl or alkyl with 1 to 12 C-atoms, and

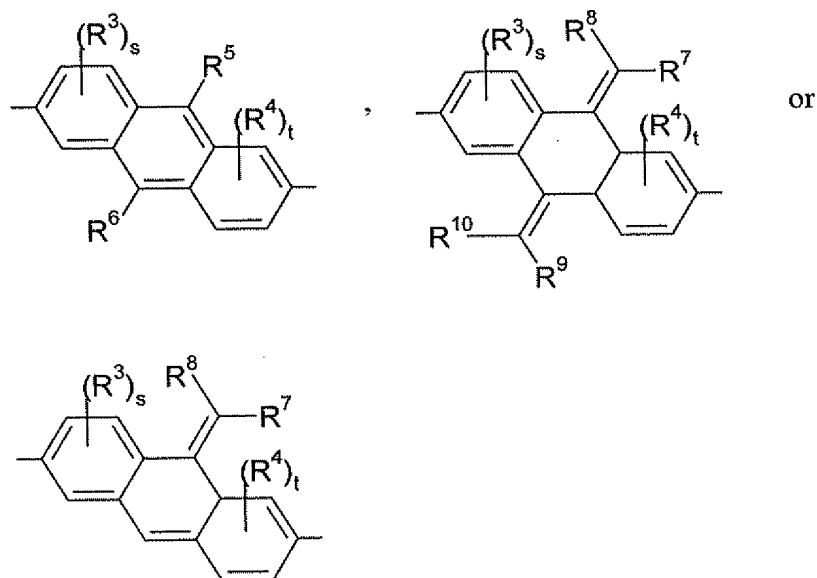
R^{x'} and R^{x''} are, independently of each other, H or alkyl with 1 to 12 C-atoms, or OR^{x'} and OR^{x''} together with the boron atom form a cyclic group having 2 to 10 C atoms.

4. (Currently Amended) A compound of formula I2



wherein

G^1 and G^2 are, independently of each other and in case of multiple occurrence of either G^1 and/or G^2 each of such G^1 and G^2 independently of one another,



R^3 to R^4 and R^{10} to R^{12} are, independently of each other, F, Cl, Br, I, CN, NO_2 , NCS, SF_5 or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by $-\text{O}-$, $-\text{S}-$, $-\text{NH}-$, $-\text{NR}^0-$, $-\text{SiR}^0\text{R}^{00}-$, $-\text{CO}-$, $-\text{COO}-$, $-\text{OCO}-$, $-\text{OCO-O}-$, $-\text{S-CO}-$, $-\text{CO-S}-$, $-\text{CY}^1=\text{CY}^2-$ or $-\text{C}\equiv\text{C}-$ in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R^{11} and R^{12} are, independently of each other, F, Br, I, CN, NO_2 , NCS, SF_5 or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by $-\text{O}-$, $-\text{S}-$, $-\text{NH}-$, $-\text{NR}^0-$, $-\text{SiR}^0\text{R}^{00}-$, $-\text{CO}-$, $-\text{COO}-$, $-\text{OCO}-$, $-\text{OCO-O}-$, $-\text{S-CO}-$, $-\text{CO-S}-$, $-\text{CY}^1=\text{CY}^2-$ or $-\text{C}\equiv\text{C}-$ in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp, and if alkoxy, then ethoxy, propoxy,

butoxy, pentoxy, hexoxy, heptoxy, octoxy, nonoxy, decoxy, undecoxy,
dodecoxy, tridecoxy or tetradecoxy,

R^5 to R^6 are, independently of each other, F, I, NO_2 , NCS, SF_5 or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, $-NR^0$ -, $-SiR^0R^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, $-CY^1=CY^2$ - or $-C\equiv C$ - in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R^7 to R^{10} are, independently of each other, F, Cl, Br, I, NO_2 , NCS, SF_5 or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, $-NR^0$ -, $-SiR^0R^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, $-CY^1=CY^2$ - or $-C\equiv C$ - in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R^0 and R^{00} are independently of each other H or alkyl with 1 to 12 C-atoms,

P is a polymerizable or reactive group,

Sp is a spacer group or a single bond,

s and t are independently of each other 0, 1, 2 or 3,

A^1 to A^3 are, independently of each other and in case of multiple occurrence of any of A^1 to A^3 each of such A^1 to A^3 independently of one another, $-CX^1=CX^2$ -, $-C\equiv C$ -, an aromatic or alicyclic ring or a group comprising two or more fused aromatic or alicyclic rings, wherein these rings optionally contain one or more hetero atoms selected from the group consisting of N, O and S, and are optionally mono- or polysubstituted by R^3 ,

X¹ and X² are independently of each other H, F, Cl or CN,

Z¹ to Z⁴ are, independently of each other, -O-, -S-, -CO-, -COO-, -OCO-, -S-CO-, -CO-S-, -O-COO-, -CO-NR⁰-, -NR⁰-CO-, -OCH₂-, -CH₂O-, -SCH₂-, -CH₂S-, -CF₂O-, -OCF₂-, -CF₂S-, -SCF₂-, -CH₂CH₂-, -CF₂CH₂-, -CH₂CF₂-, -CF₂CF₂-, -CH=N-, -N=CH-, -N=N-, -CH=CR⁰-, -CY¹=CY²-, -C≡C-, -CH=CH-COO-, -OCO-CH=CH- or a single bond,

Y¹ and Y² are independently of each other H, F, Cl or CN,

m, n and q are independently of each other 0, 1, 2 or 3, and

u and v are independently of each other 0, 1 or 2, with u+v > 0.

5. (Previously Presented) A compound according to claim 3, wherein z is an integer of 2 to 5000.

6. (Previously Presented) A compound according to claim 3, wherein z is an integer of 1 to 15.

7. (Previously Presented) A compound according to claim 3, wherein one or both of R¹ and R² denote P-Sp-.

8. (Previously Presented) A compound according to claim 2, wherein R³ and R⁴ are, each independently, F, Cl, CN, alkyl, oxaalkyl, alkoxy, alkylcarbonyl or alkoxycarbonyl with 1 to 15 C-atoms or alkenyl, alkenyloxy or alkynyl with 2 to 15 C-atoms.

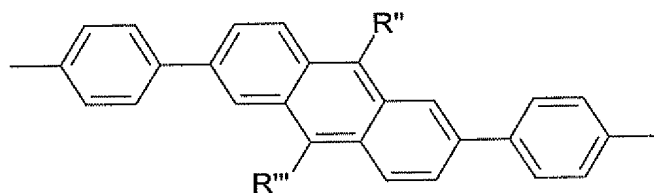
9. (Previously Presented) A compound according to claim 2, wherein R⁵⁻⁶ are, each independently, F, Cl, CN, C₁-C₂₀-alkyl that is optionally substituted with one or more fluorine atoms, C₂-C₂₀-alkenyl, C₂-C₂₀-alkynyl, C₁-C₂₀-alkoxy, C₁-C₂₀-thioalkyl, C₁-C₂₀-silyl, C₁-C₂₀-ester, C₁-C₂₀-amino, C₁-C₂₀-fluoroalkyl, or (CH₂CH₂O)_m with m being an integer of 1 to 6, and

R^{7-10} are, each independently, F, Cl, C_1 - C_{20} -alkyl that is optionally substituted with one or more fluorine atoms, C_2 - C_{20} -alkenyl, C_2 - C_{20} -alkynyl, C_1 - C_{20} -alkoxy, C_1 - C_{20} -thioalkyl, C_1 - C_{20} -silyl, C_1 - C_{20} -ester, C_1 - C_{20} -amino, C_1 - C_{20} -fluoroalkyl, or $(CH_2CH_2O)_m$ with m being an integer of 1 to 6.

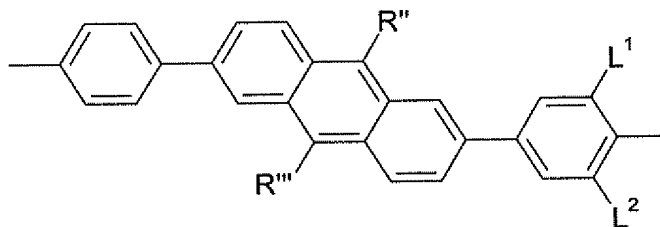
10. (Currently Amended) A compound according to Claim 2, wherein A, each independently, are furane-2,5-diyl, thiophene-2,5-diyl, thienothiophene-2,5-diyl, dithienothiophene-2,6-diyl, pyrrol-2,5-diyl, 1,4-phenylene, azulene-2,6-diyl, pyridine-2,5-diyl, pyrimidine-2,5-diyl, naphthalene-2,6-diyl, 1,2,3,4-tetrahydro-naphthalene-2,6-diyl, indane-2,5-diyl, or 1,4-cyclohexylene, in which 1,4-cyclohexylene ~~wherein~~ one or two non-adjacent CH_2 groups are optionally replaced by O and/or S, wherein these groups are unsubstituted, mono- or polysubstituted by R^3 .

11. (Previously Presented) A compound according to claim 2, wherein P is a vinyl ether, propenyl ether or oxetane group.

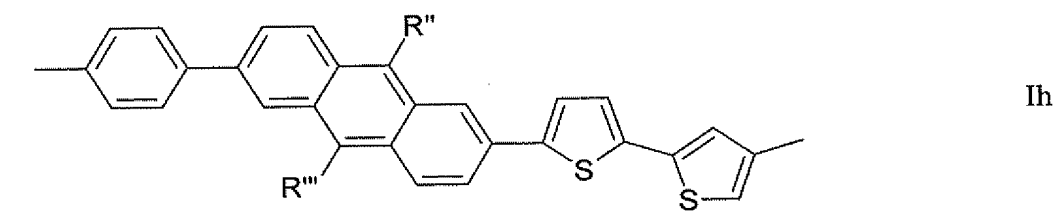
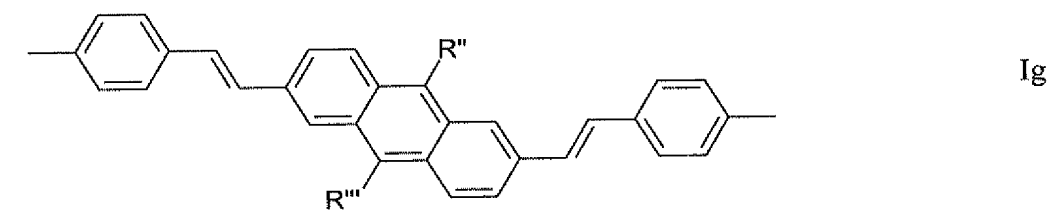
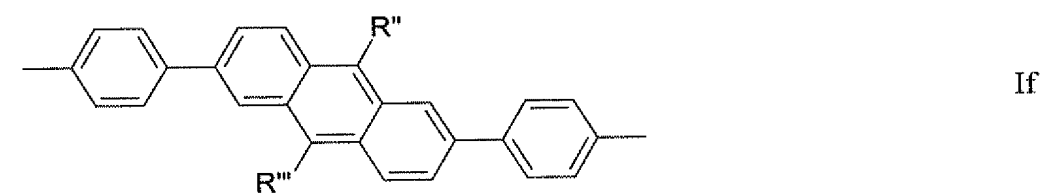
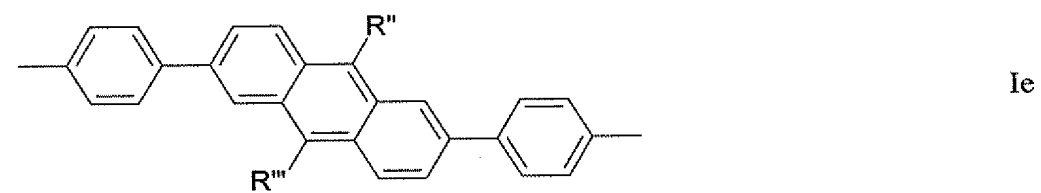
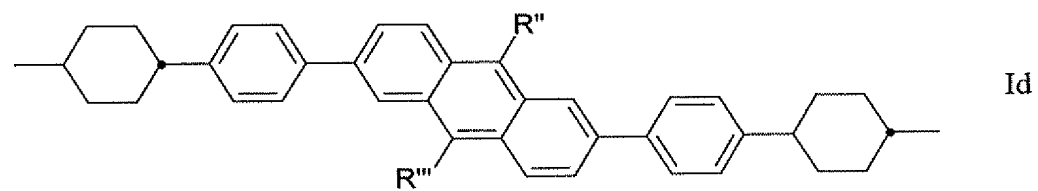
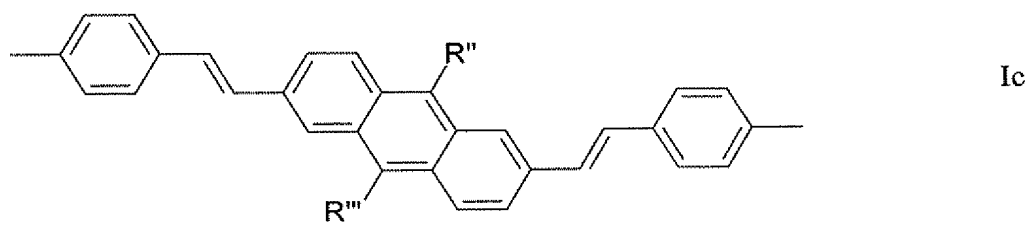
12. (Currently Amended) A compound ~~according to claim 2~~, which includes a group of formula Ia, Ib, Ic, Id, Ie, If, Ig, Ih, Ii, Ik, Im, In or Io

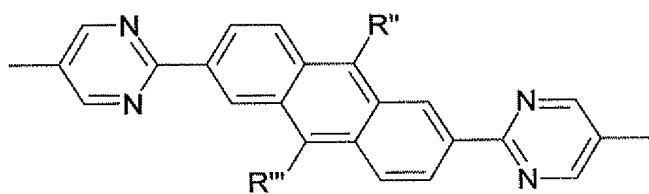


Ia

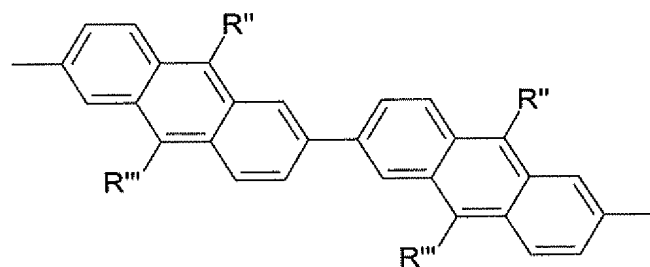


Ib

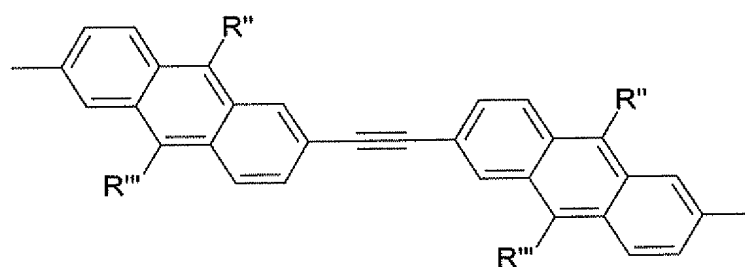




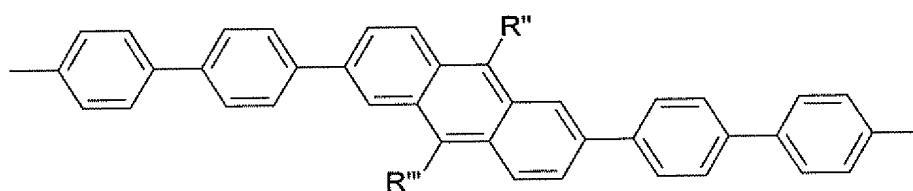
ii



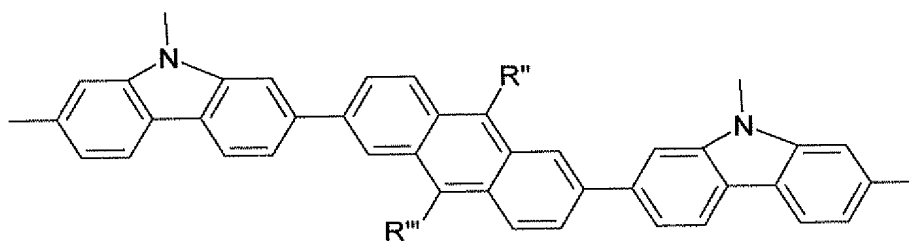
Ik



Im



In



Io

wherein

R'' and R''' are, independently of each other, F, Cl, Br, I, CN, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or

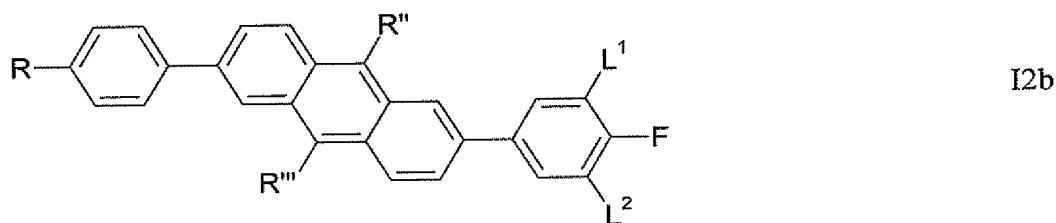
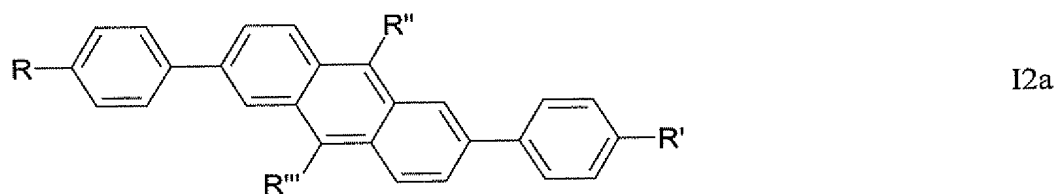
poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

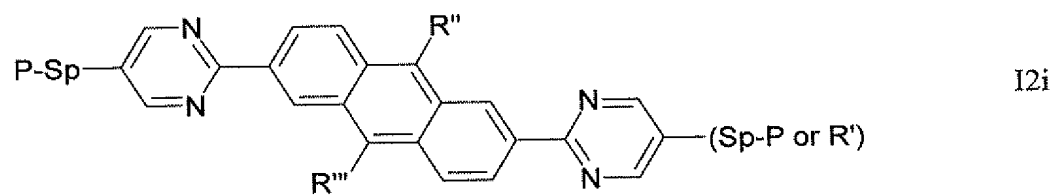
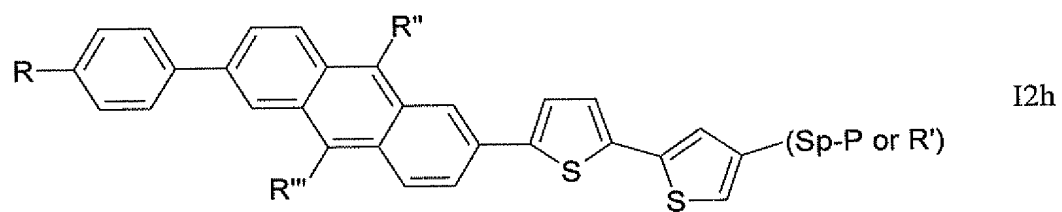
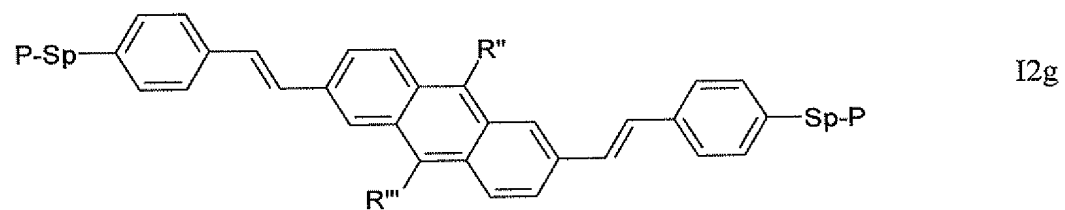
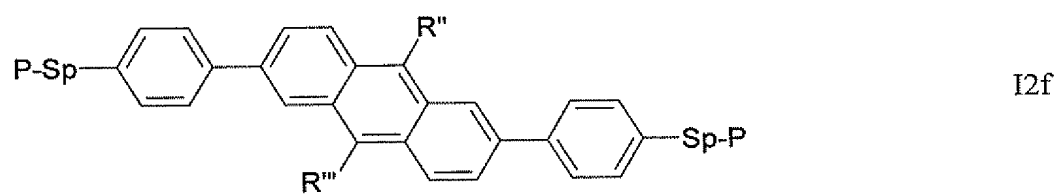
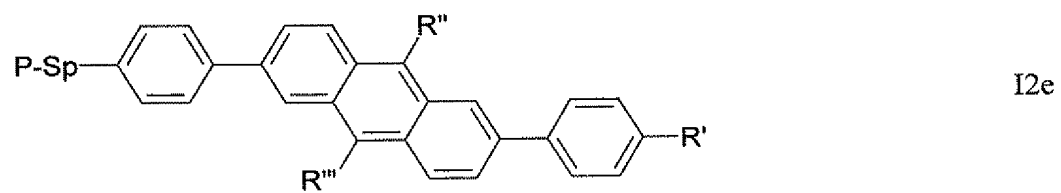
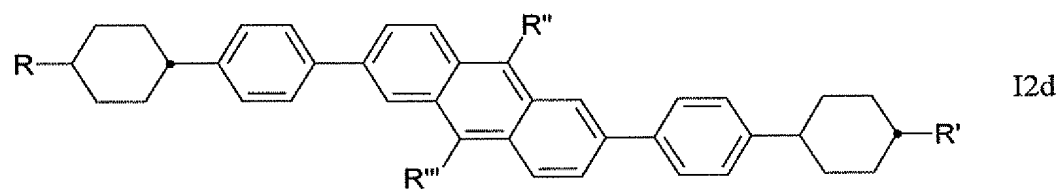
R⁰ and R⁰⁰ are independently of each other H or alkyl with 1 to 12 C-atoms, and

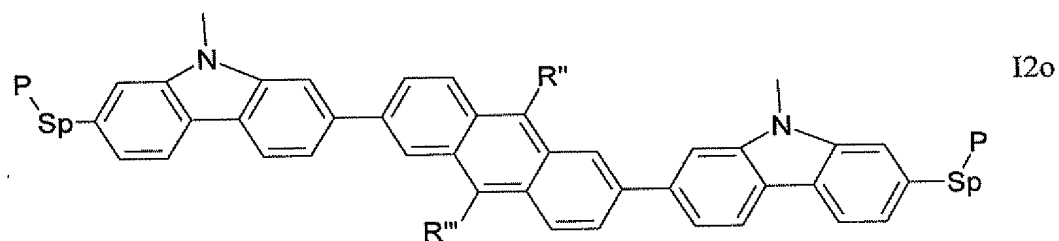
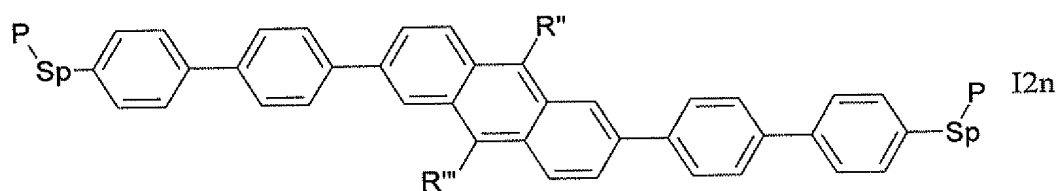
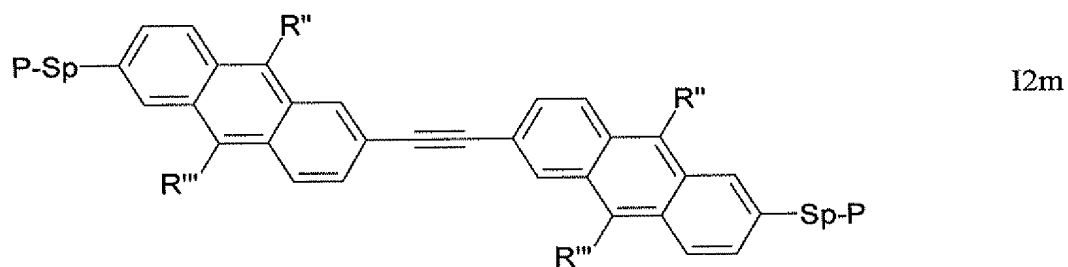
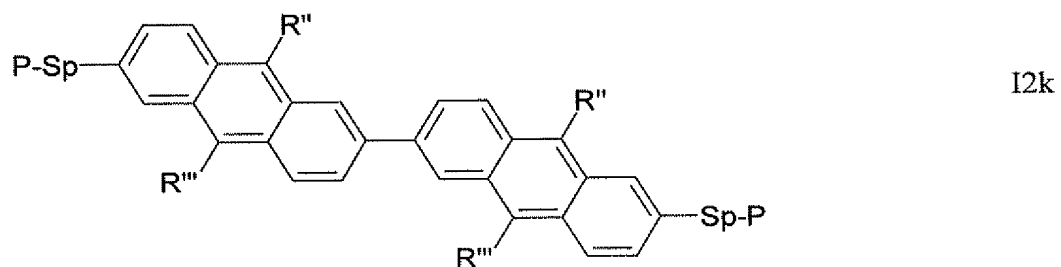
Y¹ and Y² are independently of each other H, F, Cl or CN,

and the aromatic rings are optionally substituted with 1, 2 or 3 F, Cl, Br, I, CN, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or with P-Sp.

13. (Previously Presented) A compound, which is of one of the following formulae







wherein

P is a polymerizable or reactive group,

Sp is a spacer group or a single bond,

R and R' are, independently of each other, F, Cl, Br, I, CN, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent

CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp, B(OR^x)(OR^{x"}), SnR^xR^{xx}R^{xxx} or SiR^xR^{xx}R^{xxx},

R^x, R^{xx} and

R^{xxx} are, independently of each other, H, aryl or alkyl with 1 to 12 C-atoms,

R^{x'} and R^{x''} are, independently of each other, H or alkyl with 1 to 12 C-atoms, or OR^{x'} and OR^{x''} together with the boron atom form a cyclic group having 2 to 10 C atoms

R["] and R^{'''} are, independently of each other, F, Cl, Br, I, CN, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

L¹ and L² are independently of each other H or F,

R⁰ and R⁰⁰ are independently of each other H or alkyl with 1 to 12 C-atoms, and

Y¹ and Y² are independently of each other H, F, Cl or CN,

and the aromatic rings are optionally substituted with 1, 2 or 3 F, Cl, Br, I, CN, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or with P-Sp.

14. (Previously Presented) An LC medium comprising at least one compound according to Claim 2.

15. (Previously Presented) A polymerizable LC material comprising at least one compound according to Claim 2 and optionally at least one further compound, wherein at least one of said compounds is polymerizable.

16. (Previously Presented) A polymer which has been obtained by polymerizing a compound of formula I1 according to Claim 2 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable.

17. (Previously Presented) An anisotropic polymer which has been obtained by polymerizing a compound of formula I1 according to Claim 2 or a polymerizable LC material comprising a compound of formula I1 in its oriented state in form of a film.

18. (Previously Presented) A semiconductor or charge transport material comprising at least one

compound of formula I1 according to Claim 2,

polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable.

19. (Previously Presented) A light-emissive material comprising at least one compound of formula I1 according to Claim 2,

polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at

least one further compound, wherein at least one of said compounds is polymerizable.

20. (Previously Presented) An electrooptical display, LCD, eLCD, optical film, polarizer, compensator, beam splitter, reflective film, alignment layer, color filter, holographic element, hot stamping foil, colored image, decorative or security marking, consumer object, document of value, LC pigment, adhesive, synthetic resin with anisotropic mechanical properties, cosmetic product, pharmaceutical product, diagnostic product, nonlinear optical element, optical information storage device, a chiral dopant, an electronic device, OFET, a component of an integrated circuit (IC), thin film transistor (TFT) in a flat panel display, Radio Frequency Identification (RFID) tag, a semiconducting or light-emitting component of organic light emitting diode (OLED), electroluminescent display or backlight of an LCD, photovoltaic or sensor device, an electrode material in a battery, a photoconductor, or electrophotographic recording or alignment layer in an LCD or OLED device, comprising at least one

compound of formula I1 according to Claim 2,

polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable,

or a semiconductor or light-emitting material comprising at least one of said compound, polymerizable LC material or polymer.

21. (Previously Presented) An optical electrooptical or electronic device, LCD, eLCD, OLED, OFET, IC, TFT or alignment layer, comprising at least one

compound of formula I1 according to Claim 2,

polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable,

or a semiconductor or light-emitting material comprising at least one of said compound, polymerizable LC material or polymer.

22. (Previously Presented) A TFT or TFT array for a flat panel display, RFID tag, electroluminescent display or backlight, comprising at least one compound of formula I1 according to Claim 2, polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or a semiconductor or light-emitting material comprising at least one of said compound, polymerizable LC material or polymer.

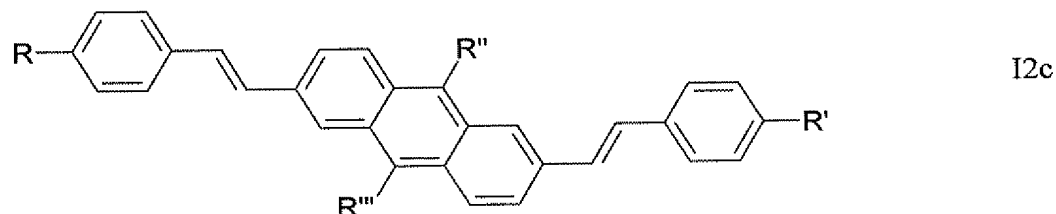
23. (Previously Presented) A security marking or device, comprising at least one compound of formula I1 according to Claim 2, polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or a semiconductor or light-emitting material comprising at least one of said compound, polymerizable LC material or polymer.

24. (Currently Amended) A compound according to Claim 4, wherein A¹⁻³ are, each independently, furane-2,5-diyl, thiophene-2,5-diyl, thienothiophene-2,5-diyl, dithienothiophene-2,6-diyl, pyrrol-2,5-diyl, 1,4-phenylene, azulene-2,6-diyl, pyridine-2,5-diyl, pyrimidine-2,5-diyl, naphthalene-2,6-diyl, 1,2,3,4-tetrahydro-naphthalene-2,6-diyl, indane-2,5-diyl, or 1,4-cyclohexylene, in which 1,4-cyclohexylene ~~wherein~~ one or two non-adjacent CH₂ groups are optionally replaced by O and/or S, wherein these groups are

unsubstituted, mono- or polysubstituted by R³.

25. (Currently Amended) A compound according to claim 3, which is of formulae I2c



wherein

R and R' are, independently of each other, F, Cl, Br, I, CN, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp, B(OR^{x1})(OR^{xn}), SnR^xR^{xx}R^{xxx} or SiR^xR^{xx}R^{xxx},

R^x, R^{xx} and R^{xxx}

are, independently of each other, H, aryl or alkyl with 1 to 12 C-atoms,

R^{x1} and R^{xn} are, independently of each other, H or alkyl with 1 to 12 C-atoms, or OR^{x1} and OR^{xn} together with the boron atom form a cyclic group having 2 to 10 C atoms

R'' and R''' are, independently of each other, F, Cl, Br, I, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not

linked directly to one another, or are P-Sp,

R^0 and R^{00} are independently of each other H or alkyl with 1 to 12 C-atoms, and

Y^1 and Y^2 are independently of each other H, F, Cl or CN,

and the aromatic rings are optionally substituted with 1, 2 or 3 F, Cl, Br, I, CN, NO_2 , NCS, SF_5 or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, $-NR^0$ -, $-SiR^0R^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, $-CY^1=CY^2$ - or $-C\equiv C$ - in such a manner that O and/or S atoms are not linked directly to one another, or with P-Sp.

26. (Previously Presented) A compound according to claim 2, wherein R^5 to R^6 are, independently of each other, F, I, NO_2 , NCS, SF_5 or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, $-NR^0$ -, $-SiR^0R^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, $-CY^1=CY^2$ - or $-C\equiv C$ - in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp.

27. (Previously Presented) A compound according to claim 2, wherein R^5 to R^6 are, independently of each other, NO_2 , NCS, SF_5 or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, $-NR^0$ -, $-SiR^0R^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, $-CY^1=CY^2$ - or $-C\equiv C$ - in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp.

28. (Previously Presented) A compound according to claim 3, wherein

R⁵ to R⁶ are, independently of each other, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp.

29. (Previously Presented) A compound according to claim 4, wherein R⁵ to R⁶ are, independently of each other, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp.

30. (New) A compound according to claim 3, wherein R¹ and R² are, independently of each other, CN, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, P-Sp, B(OR^x)(OR^{x''}), SnR^xR^{xx}R^{xxx} or SiR^xR^{xx}R^{xxx}, and if alkoxy, then propoxy, butoxy, pentoxy, hexoxy, heptoxy, octoxy, nonoxy, decoxy, undecoxy, dodecoxy, tridecoxy or tetradecoxy.

31. (New) A compound according to claim 4, wherein R¹¹ and R¹² are, independently of each other, CN, NO₂, NCS, SF₅ or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by

-O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY¹=CY²- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp, and if alkoxy, then propoxy, butoxy, pentoxy, hexoxy, heptoxy, octoxy, nonoxy, decoxy, undecoxy, dodecoxy, tridecoxy or tetradecoxy.